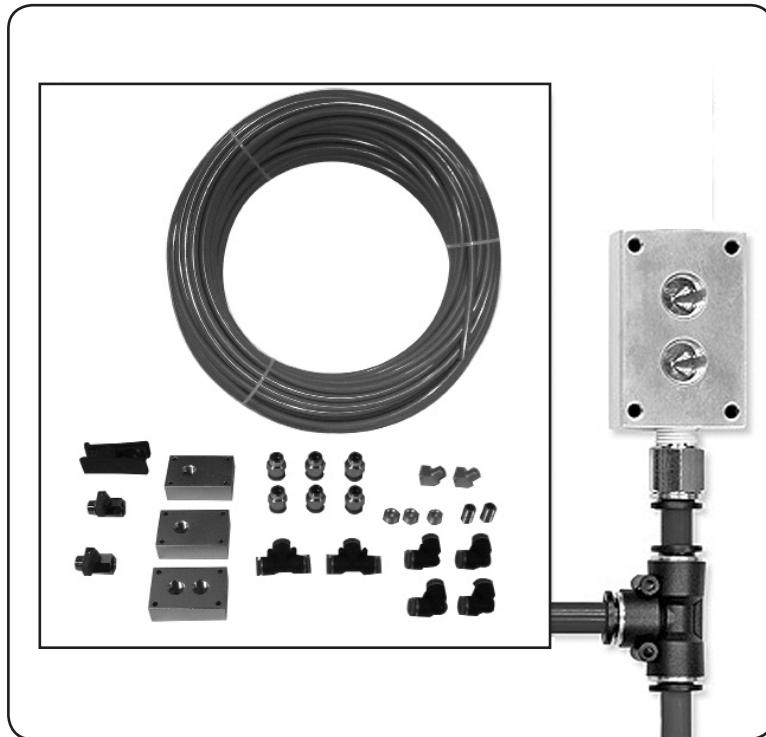


**CENTRAL PNEUMATIC.**

# **COMPLETE GARAGE AIR KIT**

**Model 66747**

## **SET UP AND OPERATING INSTRUCTIONS**



**Distributed exclusively by Harbor Freight Tools®.**

3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our website at: <http://www.harborfreight.com>



**Read this material before using this product.  
Failure to do so can result in serious injury.  
SAVE THIS MANUAL.**

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**For technical questions or replacement parts, please call 1-800-444-3353.**

## SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

### Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

### **WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### **CAUTION**

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### **NOTICE**

NOTICE is used to address practices not related to personal injury.

### **CAUTION**

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

## **IMPORTANT SAFETY INSTRUCTIONS**

### **INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS**

**WARNING** – When using tools, basic precautions should always be followed, including the following:

#### **General**

- a. To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.

#### **Work area**

- a. Keep the work area clean and well lighted. Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.

- b. **Do not operate air compressor in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The air compressor is able to create sparks resulting in the ignition of the dust or fumes.
- c. **Keep bystanders, children, and visitors away while operating any tool.** Distractions are able to result in the loss of control of the tool.

### **Personal safety**

- a. **Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use any tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating the tool increases the risk of injury to persons.
- b. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
- c. **Avoid unintentional starting. Be sure the switch is off before connecting to the air supply.** Do not carry any tool with your finger on the switch or connect the tool to the air supply with the switch on.
- d. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- e. **Avoid body contact with grounded surfaces such as pipes, radiators,**

**ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.

- f. **Explore the work piece to avoid contact with hidden wiring.** Thoroughly investigate the work piece for possible hidden wiring before installing air kit. Contact with live wiring will shock the operator.

### **Tool use and care**

- a. **Use clamps or another practical ways to secure and support the work piece to a stable platform.** Holding the work by hand or against the body is unstable and is able to lead to loss of control.
- b. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
- c. **Do not use any tool if the switch does not turn the tool on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- d. **Disconnect tools from the air source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool unintentionally. Turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position before leaving the work area.
- e. **Store tools when idle out of reach of children and other untrained**

**persons.** Any tool is dangerous in the hands of untrained users.

f. **Maintain any tool with care.** Keep a cutting tool sharp and clean. A properly maintained tool, with sharp cutting edges reduces the risk of binding and is easier to control.

g. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.

h. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

### Service

a. **Tool service must be performed only by qualified repair personnel.**

b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

### Air source

a.  **Never connect to an air source that is capable of exceeding 150 psi.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on

the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

b. **Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.** Such gases are capable of explosion and serious injury to persons.

## **SAVE THESE INSTRUCTIONS.**

## **SYMBOLS AND SPECIFIC SAFETY INSTRUCTIONS**

### Symbol Definitions

Symbol	Property or statement
<b>n<sub>o</sub></b>	No-load speed
<b>.../min</b>	Revolutions or reciprocation per minute
<b>PSI</b>	Pounds per square inch of pressure
<b>ft-lb</b>	Foot-pounds of torque
<b>BPM</b>	Blows per minute
<b>CFM</b>	Cubic Feet per Minute flow
<b>SCFM</b>	Cubic Feet per Minute flow at standard conditions
<b>NPT</b>	National pipe thread, tapered
<b>NPS</b>	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.

Chart continued in next column.

## **Symbol Definitions**

<b>Symbol</b>	<b>Property or statement</b>
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

## **Specific Safety Instructions**

1. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
2. Only use with accessories rated to handle the forces exerted by this tool during operation. Other accessories not designed for the forces generated may break and forcefully launch pieces.
3. Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.
4. Obey the manual for the air compressor used to power this kit.
5. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.



**SAVE THESE  
INSTRUCTIONS.**

## FUNCTIONAL DESCRIPTION

### Specifications

Maximum Air Pressure	150 PSI
Manifold Block Inlet	3/8" NPT
Manifold Block Outlet	3/8" NPT
Ball Valve	3/8" NPT

### Components and Controls



### ACCESSORY LIST

Part	Description	Qty
1	Outlet Block	2
2	Straight Union (1/2" x 3/8" NPT)	6
3	Elbow Union (1/2")	4
4	Ball Valve	2
5	Brass Nipple (1/4" NPT)	2
6	Brass 45° Elbow (1/4" NPT)	2
7	Brass Plug (3/8" NPT)	3
8	Compressor Manifold Block	1
9	Tee Fitting (1/2")	2
10	Nylon Hose (100' x 1/2")	1
11	Cutting Tool (blade included)	1

The Water Drain Valve can be opened or closed to exhaust water from the Outlet Blocks. Turn the handle 90° parallel to valve to open, turn the handle 90° across to valve to close.

### INITIAL AIR KIT SET UP/ ASSEMBLY



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

### Unpacking

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown throughout the manual as soon as possible.

- This air kit may be shipped with protective plugs covering air inlets. Remove all plugs before set up.

## Air Supply

### WARNING

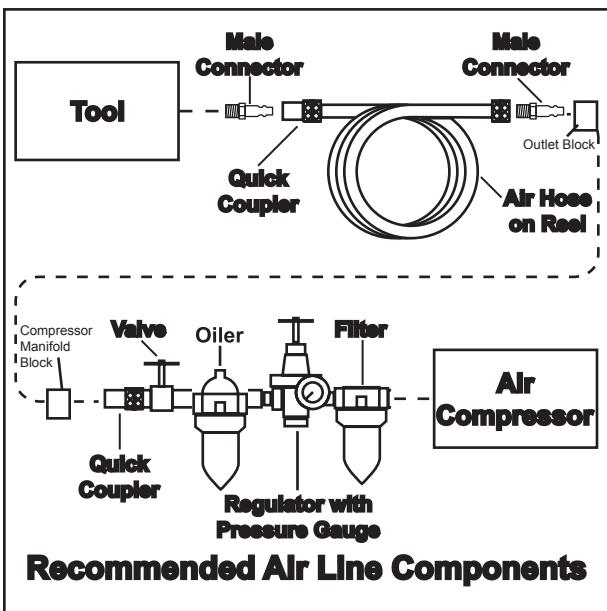


#### TO PREVENT

#### EXPLOSION:

Use only clean,

dry, regulated, compressed air to power this air kit. Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this air kit.



### Recommended Air Line Components

area with enough extra length to allow free movement while working.

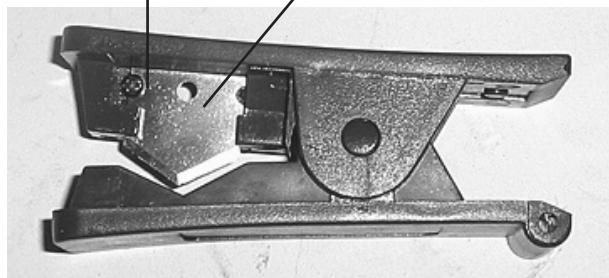
3. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.

## Air Kit Assembly

**NOTE:** When installing any metal connector, first wrap the threads with thread seal tape (not included).

### Cutting the Nylon Hose (10).

Retaining Screw      Blade



1. To cut the Nylon Hose (10) insert the Hose into the jaws of the Cutter (11). Press the jaws closed, cutting the Hose.
2. If necessary, the Blade in the Cutting Tool can be changed. Remove the Retaining Screw and pull the blade out. Wear protective gloves when doing this to avoid cutting yourself. Insert a new Blade (not included) and replace the Retaining Screw.

### Connecting Nylon Hose to a fitting.

1. To attach the Nylon Hose (10) to any connector in this kit, press the Hose into the connector until it seats. Then pull back lightly to assure that it is locked in.

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent injury and distraction.
2. Route the air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to reach the work

2. To remove the Nylon Hose (10) from any compression fitting in this kit, push in evenly on the release ring, and pull the Hose out of the fitting.
3. To reattach the Hose, trim the end of the Hose above the previous crimp, before attempting to reconnect to the fitting.

### Planning your air line layout.

1. Plan your air line layout before beginning. The air line can be installed inside the wall or on the surface of the wall. Plan where all Tees, Elbows, connections, Manifolds and work stations will be located.

### Surface or Hidden installation

1. You can run the Nylon Hose (10) behind dry wall for a “hidden” installation, or you can surface mount it. It is easiest to perform the hidden installation in new construction before the dry wall is installed. In an existing structure, it is easiest to perform the surface mount installation.



*Hidden Mounting  
(with drywall removed for clarity)*

2. For hidden mounting, the Nylon Hose runs behind the drywall. The Straight Union (2) enters the Manifold (8) or Outlet Block (1) from the back.

3. For surface mounting, the Nylon Hose runs on the surface of the drywall, and the opening in the back of the Manifold and Outlet Block are plugged.

### Installing the Air Kit

#### Prepare the Compressor Manifold Block (8) to install near your compressor.

1. Attach a “jumper” to your compressor outlet, which will connect to the Compressor Manifold Block (8). To do this:  
Cut a short length of Nylon Hose (10), Attach a Straight Union connector (2) to one end. Install a Straight Union connector (2) to the outlet of your compressor regulator.
2. Next, install a Straight Union connector (2) into the Compressor Manifold Block (8). Insert the end of the jumper.
3. Attach Straight Union connectors (2) to the Compressor Manifold Block (8) as needed for your planned layout. Insert a Brass Plug (7) into any unused openings in the Manifold.
4. Attach the Compressor Manifold Block (8) to your wall. Use #10 wood screws (not included) or other suitable fasteners to attach the manifold to the wall.
5. Run Nylon Hose (10) as required. Use clamps or other fittings (not included) to securely attach the Hose to your walls.
6. Install Union Elbows (3) or Tee Fittings (9) as required.

### **Prepare Outlet Block (1)**

1. Attach Straight Union connector (2) to each Outlet Block (1) as needed. Install Water Drain Valve (4) in bottom opening of Outlet Block. Insert a Brass Plug (7) into any unused openings in the Outlet Block.
2. Optionally, attach a 1/4" NPT quick release coupling (not included) to the 45° Elbow (6).
3. Attach the end of the Nylon Hose to the Straight Union (2).
4. Install the Outlet Blocks as desired. Use #10 wood screws (not included) or other suitable fasteners to attach the Outlet to the wall. Be sure the Water Drain Valve (4) is on the underside.

## **OPERATING INSTRUCTIONS**



**Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.**

**Inspect Air Kit before use, looking for damaged, loose, and missing parts. If any**

**problems are found, do not use air kit until repaired.**

### **WARNING**

#### **TO PREVENT SERIOUS INJURY FROM**

**ACCIDENTAL OPERATION:**  
**Turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position before performing any inspection, maintenance, or cleaning procedures.**

#### **TO PREVENT SERIOUS INJURY:**

**Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.**

### **General Operating Instructions**

1. If an automatic oiler is not used, add a few drops of Pneumatic Tool Oil to the airline connection before using any air tool. Add a few drops more after each hour of continual use.
2. Connect air hose (not included) to the Outlet Block (1). Connect air tool (not included) to the air hose. Use the tool according to manufacturer's recommendations.

3. If the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and increase the pressure (PSI) output of the regulator up to the maximum air pressure rating of this tool.  
**CAUTION! TO PREVENT TOOL AND ACCESSORY FAILURE, RESULTING IN INJURY:**  
**Do not exceed the air kit's maximum air pressure rating.**  
If the tool still does not have sufficient force at maximum pressure and sufficient airflow, then a larger tool may be required.
4. When work is completed, turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position after use. Clean external surfaces of the tool with clean, dry cloth, and apply a thin coat of tool oil. Then store the tool indoors out of children's reach.

### **User-Maintenance Instructions**



**Procedures not specifically explained in this manual must be performed only by a qualified technician.**

### **WARNING**



### **TO PREVENT SERIOUS INJURY FROM**

**ACCIDENTAL OPERATION:**  
Turn off any tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position before performing any inspection, maintenance, or cleaning procedures.

### **TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:**

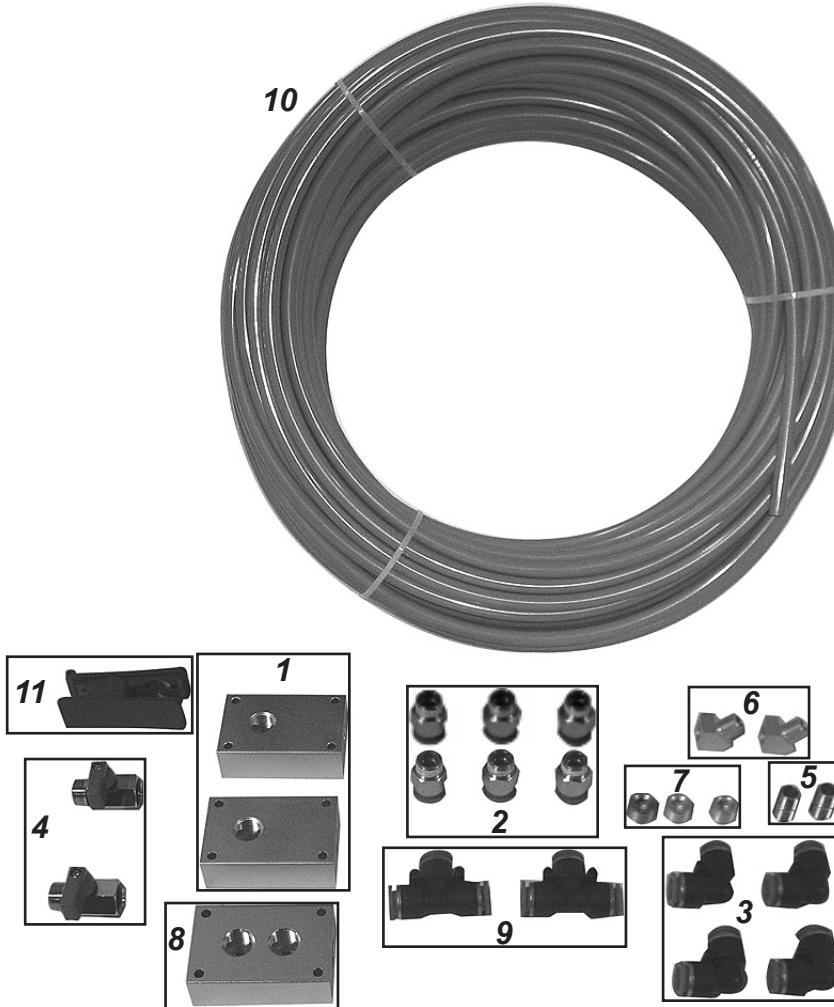
**Do not use damaged equipment.** If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

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### **Cleaning, Maintenance, and Lubrication**

1. **Daily - Air Supply Maintenance:**  
Every day, perform maintenance on the air supply according to the compressor manufacturers' instructions. The lubricator's oil level needs to be maintained and the moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow air tools to operate more safely and will also reduce wear on the tool.
3. Drain water from the Water Drain Valves (4) daily.
4. Periodically check for air leaks. Repair any leak before continuing to work.

## ASSEMBLY DIAGRAM



PARTS LIST		
Part #	Description	Qt'y
1	Outlet Block	2
2	Straight Union (1/2" x 3/8" NPT)	6
3	Elbow Union (1/2")	4
4	Ball Valve	2
5	Brass Nipple (1/4" NPT)	2
6	Brass 45° Elbow (1/4" NPT)	2
7	Brass Plug (3/8" NPT)	3
8	Compressor Manifold Block	1
9	Tee Fitting (1/2")	2
10	Nylon Hose (100' x 1/2")	1
11	Cutting Tool (blade included)	1

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## **LIMITED 90 DAY WARRANTY**

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Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.**

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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### **PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.